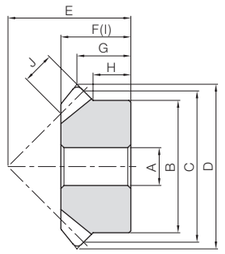
Specifications	
Precision grade	JIS B 1704: 1978 grade 3
Gear teeth	Gleason
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating

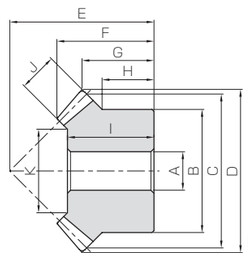
* The precision grade of J Series products is equivalent to the value shown in the table.

J

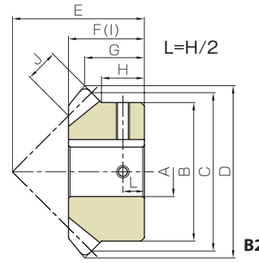


B2

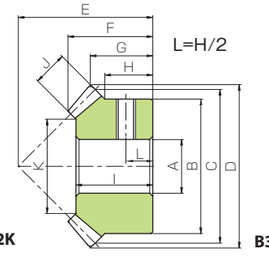
J Series



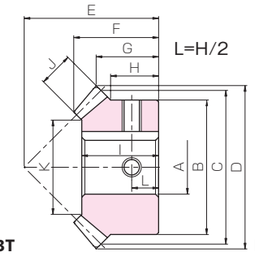
B3



B2K



B3T



B3K

Catalog Number	Gear Ratio	No. of teeth	Shape	Bore A_{H7}	Hub dia. B	Pitch dia. C	Outside dia. D	Mounting distance E	Total length F	Crown to back G	Hub width H	Hole length I	Face width J	Holding surface dia. K	Allowable torque (N·m) Bending strength	Allowable torque (N·m) Surface durability	Allowable torque (kgf·m) Bending strength	Allowable torque (kgf·m) Surface durability	Backlash (mm)	Weight (kg)
SM2-16	1	16	B2	10	27	32	34.83	30	19	15.41	11.5	19	7	—	3.84	0.33	0.39	0.034	0.06~0.16	0.076
SM2.5-16				12	34	40	43.53	35	21	16.77	12	21	9		7.63	0.68	0.78	0.069	0.07~0.17	0.14
SM3-16				14	42	48	52.24	40	23	18.12	13	23	11		13.3	1.21	1.36	0.12	0.08~0.18	0.22
SM4-16				16	55	64	69.66	50	28	20.83	13.5	28	14		30.7	2.87	3.13	0.29	0.12~0.27	0.49
SM5-16				20	70	80	87.07	65	37	28.54	20	37	17		58.9	5.62	6.00	0.57	0.14~0.34	1.03
SM1-20	1	20	B3	6	16	20	21.41	20	13.94	10.71	8	12	5	9.86	0.89	0.084	0.091	0.0086	0.03~0.13	0.019
SM1.25-20				8	22	25	26.77	23	15.27	11.38	9	13	6	13.03	1.70	0.16	0.17	0.017	0.04~0.14	0.036
SM1.5-20				8	26	30	32.12	30	21.24	16.06	13	19	8	15.37	3.12	0.30	0.32	0.031	0.05~0.15	0.074
SM2-20				12	34	40	42.83	37	24.89	18.41	14	22	10	21.72	7.13	0.72	0.73	0.073	0.06~0.16	0.15
SM2.5-20				14	42	50	53.54	48	32.54	24.77	19	29	12	28.06	13.6	1.41	1.39	0.14	0.07~0.17	0.30
SM3-20				16	50	60	64.24	58	39.84	30.12	23	35	15	31.57	24.1	2.54	2.45	0.26	0.08~0.18	0.53
SM3.5-20				20	60	70	74.95	65	44.13	32.47	25	40	18	39.09	38.8	4.15	3.96	0.42	0.10~0.25	0.82
SM4-20				20	64	80	85.65	75	50.78	37.83	27	45	20	43.43	57.0	6.19	5.82	0.63	0.12~0.27	1.15
SM5-20				25	80	100	107.07	90	60.38	43.54	30	54	26	54.46	114	12.6	11.6	1.29	0.14~0.34	2.15
SM6-20				28	100	120	128.48	104	67.67	48.24	34	60	30	67.15	191	21.8	19.4	2.22	0.16~0.36	3.68
SM8-20				30	130	160	171.31	125	73.33	50.66	30	62	35	95	413	49.6	42.1	5.06	0.20~0.45	7.05
SM1-25	1	25	B3	6	20	25	26.41	23	15.16	11.21	8	14	6	15.03	1.47	0.16	0.15	0.017	0.03~0.13	0.035
SM1.25-25				8	25	31.25	33.02	28	17.88	13.26	9.25	16	7	18.7	2.75	0.31	0.28	0.032	0.04~0.14	0.063
SM1.5-25				10	30	37.5	39.62	34	22.25	16.31	11.5	19	9	19.54	4.96	0.57	0.51	0.059	0.05~0.15	0.11
SM2-25				12	40	50	52.83	40	24.33	16.41	10	20	12	26.06	11.8	1.41	1.20	0.14	0.06~0.16	0.22
SM2.5-25				16	50	62.5	66.04	50	30.41	20.52	12.5	26	15	34.57	23.0	2.81	2.34	0.29	0.07~0.17	0.42
SM3-25				20	60	75	79.24	60	37.81	24.62	15	32	20	37.43	42.1	5.24	4.29	0.53	0.08~0.18	0.74
SM3.5-25				25	70	87.5	92.45	70	43.23	28.72	17.5	37	22	46.77	64.7	8.19	6.60	0.83	0.10~0.25	1.15
SM4-25				28	80	100	105.66	80	49.32	32.83	20	43	25	55.29	96.3	12.4	9.82	1.26	0.12~0.27	1.73
SM5-25				28	100	125	132.07	100	60.82	41.04	25	50	30	65.15	184	24.2	18.7	2.47	0.14~0.34	3.41
SM6-25				28	120	150	158.48	120	72.32	49.24	30	61	35	83	309	42.1	31.5	4.29	0.16~0.36	6.03
SM1-30	1	30	B3	8	24	30	31.41	28	17.71	13.71	10	16	6	19.03	1.99	0.26	0.20	0.026	0.03~0.13	0.057
SM1.25-30				10	30	37.5	39.27	36	23.47	18.13	13.5	21	8	22.37	4.05	0.54	0.41	0.055	0.04~0.14	0.12
SM1.5-30				10	36	45	47.12	43	28.24	21.56	16	25	10	25.71	7.19	0.97	0.73	0.099	0.05~0.15	0.21
SM2-30				12	45	60	62.83	50	29.42	21.41	12.5	25	12	36.06	15.9	2.22	1.62	0.23	0.06~0.16	0.37
SM2.5-30				16	60	75	78.54	62	36.28	26.27	17	32	15	47.57	31.1	4.43	3.17	0.45	0.07~0.17	0.76
SM3-30				20	70	90	94.24	75	45.47	32.12	20	40	20	53.43	57.5	8.33	5.87	0.85	0.08~0.18	1.32
SM3.5-30				25	90	105	109.95	85	49.66	34.97	25	45	22	67.77	88.0	13.0	8.97	1.32	0.10~0.25	2.20
SM4-30				28	100	120	125.66	95	54.52	37.83	25	50	25	79.29	131	19.6	13.3	2.00	0.12~0.27	3.09
SM5-30				28	130	150	157.07	120	68.56	48.54	35	62	30	99.15	249	38.3	25.4	3.91	0.14~0.34	6.47

To order J Series products, please specify: **Catalog No. + J + BORE.**

* The product shapes of J Series items are identified by background color.

Bore H7	6	8	10	12	14	15	16	17	18	19	20	22	25	28	30	32	35	40	45	50	55	60	65	70	75	80	85
Keyway Js9																											
Screw size	—		4×1.8		5×2.3				6×2.8				8×3.3			10×3.3		12×3.3	14×3.8		16×4.3	18×4.4		20×4.9		22×5.4	
Catalog Number	M4	M5	M4						M5				M6			M8			M10		M12			M16			
SM2-16 J BORE			B2K	B2K																							
SM2.5-16 J BORE				B2K	B2K	B2K	B2K	B2K																			
SM3-16 J BORE					B2K	B2K	B2K	B2K	B2K	B2K	B2K																
SM4-16 J BORE							B2K	B2K	B2K	B2K	B2K	B2K	B2K	B2K													
SM5-16 J BORE											B2K	B2K	B2K	B2K	B2K	B2K	B2K										
SM1-20 J BORE	B3T																										
SM1.25-20 J BORE		B3T																									
SM1.5-20 J BORE		B3T	B3K																								
SM2-20 J BORE				B3K	B3K	B3K	B3K																				
SM2.5-20 J BORE					B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K															
SM3-20 J BORE							B3K	B3K	B3K	B3K	B3K	B3K															
SM3.5-20 J BORE											B3K	B3K	B3K	B3K	B3K												
SM4-20 J BORE											B3K	B3K	B3K	B3K	B3K	B3K	B3K										
SM5-20 J BORE													B3K	B3K	B3K	B3K	B3K	B3K	B3K								
SM6-20 J BORE														B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K						
SM8-20 J BORE															B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	
SM1-25 J BORE	B3T																										
SM1.25-25 J BORE		B3T	B3K	B3K																							
SM1.5-25 J BORE			B3K	B3K	B3K																						
SM2-25 J BORE				B3K	B3K	B3K	B3K	B3K	B3K	B3K																	
SM2.5-25 J BORE							B3K	B3K	B3K	B3K	B3K	B3K	B3K														
SM3-25 J BORE											B3K	B3K	B3K	B3K													
SM3.5-25 J BORE													B3K	B3K	B3K	B3K	B3K										
SM4-25 J BORE														B3K	B3K	B3K	B3K	B3K	B3K								
SM5-25 J BORE														B3K	B3K	B3K	B3K	B3K	B3K	B3K							
SM6-25 J BORE														B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K			
SM1-30 J BORE		B3T	B3K	B3K																							
SM1.25-30 J BORE			B3K	B3K	B3K	B3K	B3K	B3K																			
SM1.5-30 J BORE			B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K																	
SM2-30 J BORE				B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K														
SM2.5-30 J BORE							B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K										
SM3-30 J BORE											B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K									
SM3.5-30 J BORE													B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K						
SM4-30 J BORE														B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K				
SM5-30 J BORE														B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K	

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